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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,228	06/20/2003	Richard J. DeGroot	1.911.4	9164	
7	7590 04/20/2005		EXAMINER		
Henry E. Nay			WEBB, GREGORY E		
-	Hawthorne, D'Armond,		ART UNIT	PAPER NUMBER	
McCowan & J	arnan, L.L.P.		ARTUNII	PAPER NUMBER	
P. O. Box 86060		1751			
Baton Rouge,	LA 70821-3513		DATE MAILED: 04/20/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		l)	W
	Application No.	Applicant(s)	
	10/601,228	DEGROOT ET AL.	
Office Action Summary	Examiner	Art Unit	
	Gregory E. Webb	1751	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a a control of the contro	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. 3ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2.	2 October 2004.		
2a) This action is FINAL . 2b) ⊠ 1	This action is non-final.		
3) Since this application is in condition for allo	· · · · · · · · · · · · · · · · · · ·	• •	
closed in accordance with the practice und	er <i>Ex par</i> te Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) <u>1-30</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1,3,5-7,14,16,18,20-22 and 29</u> is/a 7) ☐ Claim(s) <u>2,4,8-13,15,17,19,23-28 and 30</u> is 8) ☐ Claim(s) are subject to restriction and	drawn from consideration. are rejected. Vare objected to.		
Application Papers			
9)☐ The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a) a			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	· · · · · ·	, , ,	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum		119(a)-(d) or (f).	
1. Certified copies of the priority docum2. Certified copies of the priority docum		polication No	
3. Copies of the certified copies of the p		• • • • • • • • • • • • • • • • • • • •	
application from the International Bur		· ·	
* See the attached detailed Office action for a	list of the certified copies not	received.	
Attachment(s)	∧ □	(070 440)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 102204. 	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	
Patent and Trademark Office OL-326 (Rev. 1-04) Office	e Action Summary	Part of Paper No./Mail Date 041605	

9-16-55 Part of Paper No./Mail Date 041605

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3, 5-7, 14, 16, 18, 20-22, and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamada et al (US 6,312,759).

Yamada teaches cleaning compositions containing fluorinated hydrocarbons (see abstract).

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Yamada teaches azeotropic compositions containing 1,1,2,3,3,4-heptafluorocyclopentane with other hydrocarbons and alcohols (see cols. 6-7).

Yamada teaches a specific azeotropic compositions containing the heptafluorocyclopentane and trans-1,2-dichloroethylene (see col. 7, lines 5-50).

Concerning the halogenated second component, Yamada teaches the following:

With no specific limitation, the chlorinated hydrocarbons include for example methylene chloride, dichloroethane, dichloroethylene, trichloroethylene and perchloroethylene.(see col. 8, lines 41-44)

Concerning the preferred alcohols, Yamada teaches the following:

With no specific limitation, the alcohols include for example methanol, ethanol, isopropanol, n-propanol, n-butanol, s-butanol, t-butanol, n-pentanol, isopentanol, n-hexanol, isohexanol, 2-ethylhexanol and n-octanol. Among them, preference is given to alcohols with 5 or less carbon atoms; and furthermore, alcohols with 1 to 4 carbon atoms are specifically preferable (see col. 8, lines 25-31).

Allowable Subject Matter

- 1. Claims 2, 4, 8-13, 15, 17, 19, 23-28, and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 2. The applicant's specific combination of the fluorocyclopentane and the bromopropane was not found in the prior art of record. Although the prior art teaches the use of the

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fluorocyclopentane in combination with various other halogenated solvents, the prior art provides no motivation for the substitution of the taught halogenated solvents for the applicant's preferred use of the bromopropane. As their are literally thousand of halogenated solvents one would not have been motivated to make this specific substitution. As such these claims are found to be allowable.

- 3. Also of relevance, Milbrath et al (US 6,274,543) teaches solvent compositions containing dichloroethylene and a fluorinated solvent. Milbrath fails to teach or provide motivation for using the specific combination of solvents as required by applicant.
- 4. Sekiya et al (US 6,403,846) teaches methods of preparing various fluorinated solvents including fluorocyclopentanes.
- 5. Takada et al (US 6,218,586) and Ide et al (US 5,599,783) teach the use of fluorocyclopentane but fails to teach the combination with the applicant's second component.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory E. Webb whose telephone number is 571-272-1325. The examiner can normally be reached on 9:00-17:30 (m-f).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregory E. Webb Primary Examiner

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